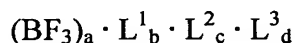


## IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for preparing polyisobutene having a content of terminal vinylidene groups of at least 75 mol% ~~by~~ comprising polymerizing isobutene or isobutenic hydrocarbon mixtures in the liquid phase in the presence of a boron trifluoride complex catalyst of the composition



where

- $\text{L}^1$  is water, a primary  $\text{C}_1$ - $\text{C}_5$ -alkanol and/or a secondary  $\text{C}_3$ - $\text{C}_5$ -alkanol,
- $\text{L}^2$  is at least one aldehyde and/or one ketone,
- $\text{L}^3$  is an ether having at least 5 carbon atoms, a secondary alkanol having at least 6 carbon atoms, a primary alkanol having at least 6 carbon atoms and/or a tertiary alkanol,
- the b:a ratio is in the range from 0.9 to 3.0,
- the c:a ratio is in the range from 0.01 to 0.5,
- the d:a ratio is in the range from 0 to 1.0.

Claim 2 (Currently Amended): A The process as claimed in claim 1, wherein  $\text{L}^1$  is selected from the group consisting of water, methanol, ethanol, 2-propanol, ~~and~~ 1-propanol and mixtures thereof.

Claim 3 (Currently Amended): A The process as claimed in claim 1 ~~or~~ 2, wherein  $\text{L}^2$  is selected from the group consisting of formaldehyde, acetaldehyde, propionaldehyde, n-butyraldehyde, isobutyraldehyde, acetone, methyl ethyl ketone ~~and~~ diethyl ketone and mixtures thereof.

Claim 4 (Currently Amended): ~~A~~ The process as claimed in claim 1, wherein the d:a ratio is in the range from 0.1 to 1.

Claim 5 (Currently Amended): ~~A~~ The process as claimed in claim 4, wherein L<sup>3</sup> is selected from the group consisting of methyl tert-butyl ether, di-n-butyl ether, di-n-hexyl ether ~~and~~ dioctyl ether and mixtures thereof.

Claim 6 (Currently Amended): ~~A~~ The process as claimed in claim 4, wherein L<sup>3</sup> is selected from primary alcohols having  $\beta$ -branching.

Claim 7 (Currently Amended): ~~A~~ The process as claimed in claim 6, wherein L<sup>3</sup> is selected from the group consisting of 2-ethylhexanol, 2-propylheptanol, the oxo alcohols of dimeric, trimeric and tetrameric propylene, ~~and di- and~~ dimeric butene, trimeric butene and mixtures thereof.

Claim 8 (Currently Amended): ~~A~~ The process as claimed in claim 4, wherein L<sup>3</sup> is tert-butanol.

Claim 9 (Currently Amended): ~~A~~ The process as claimed in claim 4, wherein L<sup>3</sup> is selected from n-hexanol and n-octanol.

Claim 10 (Currently Amended): ~~A~~ The process as claimed in ~~any of the preceeding claims~~ claim 1 for preparing polyisobutene having a number-average molecular weight M<sub>n</sub> of from 500 to 2500 dalton.